

[54] REMOVAL OF SURFACE LAYER ANOMALY EFFECTS

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[58] Field of Search 367/50, 51, 73, 74

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[57] ABSTRACT

In marine seismic exploration, the distortion introduced by an anomalous surface layer is removed from seismograms. The surface layer travel time, obtained for example from fathometer readings, is converted to a model depth section of the anomalous surface layer. Another model depth section includes an assigned control layer without the anomaly. From these two depth sections, time corrections are obtained. These time corrections are applied to the seismograms at the time of reflection from each of the subsurface interfaces.

8 Claims, 13 Drawing Figures

